

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93275 Series/Test: / Test Date: July 29, 1993 File Name: **Fan**Make: AcmeModel #: BDR48J-ALSerial #: -Manufacturer: AcmeBlade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 4Shape: propellerMaterial: galv. steelPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 13 per rowNumber Rows: 2Door Length: 25.3"Location: intake**Other Attachments****Motor**Make: MagnetekModel #: 8-181782-01Serial #: -H.P.: 1.0Amps: 4.4/8.8Volts: 230/115RPM: 1725S.F.: 1.00Drive Pulley Dia.: 2.8" o.d.Axle Pulley Dia.: 10.9"o.d.Center Spacing: -**Housing**Material: galv. steelIntake Area: 52"x51.6"Discharge Area: 50.8"x51"Depth: 42.3" top
28.3" bottom**Guards**Description: welded wireSpacing: 1" x 2"Location: exhaust

TEST RESULTS

ACME BDR48J-AL

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93275	0.00	442	19000	23.4
Fan description:	0.05	441	17700	21.0
48" belt drive, 1 hp Magnetek 8-181782-01	0.10	441	16500	19.0
motor, galvanized steel slant housing,	0.15	440	15000	16.9
aluminum shutter and guard	0.20	439	13500	14.8
	0.25	439	11200	11.6
